



## **STARBASE PROGRAM FACTS**

**WEBSITE:** <https://dodstarbase.org>

- Congressionally authorized as Department of Defense (DoD) Civil Military Program in FY93 (10 USC 2193b)
- Licensed STARBASE instructors provide hands-on, rigorous, and real-world experiences in a high-tech environment on military installations that inspire and educate students in STEM (Science, Technology, Engineering, and Mathematics) and expand their awareness of future STEM careers while providing a model and vision for STEM education to local school districts and educators
- Operations, including staffing, technology, equipment, curriculum, supplies and other are funded by DoD; states and host military bases provide the facilities and support
- STARBASE programs partner with local military volunteers, their local STEM industry, and other community organizations to further promote and advance STEM
- Includes 25 hours instruction using a common core curriculum that meets or exceeds the national standards
- Over 90,000 students participate annually in grades K-12 (basic and supplemental programs) with an average annual cost of approximately \$450,000 per program
- DoD STARBASE has 70 programs including Puerto Rico and two South Dakota Native American outreach sites
- Administered by the DoD and hosted by the National Guard (52), Air Force (9), Air Force Reserve (4), Space Force (3), Army (1), and Marine Corps (1); NGB's Office of Youth Programs co-administers the guard locations

## **STARBASE EFFICACY**

- National student pre/post-test comparisons demonstrate an average 26% gain in STEM knowledge, skills and awareness
- These same testing comparisons indicate an average student knowledge increase of 35% in Physics, 30% in Chemistry, 24% in Engineering and Technology, and 20% in Mathematics
- Student surveys demonstrate an average 81% increase in positive attitudes towards STEM; 76% of responses were statistically significant with the largest shifts in positive attitudes toward STEM subjects, the military, and STEM-related careers
- Participating local teachers give highest ratings for students' improved understanding of science, interest in learning about science and technology, and increased student confidence

## **STARBASE CURRICULUM**

- Physics & Chemistry (Motion & Force, Fluid Mechanics, Building Blocks of Matter)
- Energy (Energy Fundamentals)
- Technology (Current & Emerging Technology, Applying Technology)
- Engineering (Engineering Design Process, 3D Computer-Aided Design)
- Mathematics (Number & Number Relationships, Measurement, Geometry, Data Analysis)
- STEM Careers, including in DoD (STEM Careers, Personal Investigations)
- Outreach (Community STEM Events, High School and College Collaboration)

## **POPULATION SERVED**

- Authorized for K-12; targeted for socio-economically disadvantaged elementary school students (mainly 5th graders)
- Primarily focused toward Title 1 schools in urban and/or rural communities with demographics historically under-served and under-represented in STEM



## STARBASE PROGRAM LOCATIONS

1. AL – STARBASE Maxwell – Maxwell AFB, Montgomery AL
2. AZ – STARBASE Arizona – Tucson AZ
3. CA – STARBASE Vandenberg – Vandenberg AFB CA
4. CA – STARBASE Edwards – Edwards AFB CA
5. CA – STARBASE Los Alamitos – Los Alamitos JFTB CA\*
6. CA - STARBASE Sacramento – Okinawa Street Armory, Sacramento CA\*
7. CO – Peterson STARBASE – Peterson AFB, Colorado Springs CO
8. CT – STARBASE Windsor Locks – Windsor Locks Readiness Center, Windsor Locks CT\*
9. CT – STARBASE Waterbury – Naugatuck Valley Community College, Waterbury CT\*
10. FL – STARBASE Patrick – Patrick AFB, Satellite Beach FL
11. FL – STARBASE Florida – 125 Fighter Wing, Jacksonville FL\*
12. GA – Peach State STARBASE – Clay National Guard Center, Marietta GA\*
13. GA – STARBASE Robins – Robins AFB GA
14. GA – STARBASE Savannah – Savannah GA
15. HI – STARBASE Hawaii – Keahu Armory, Keahu HI\*
16. ID – STARBASE Idaho – Gowen Field, Boise ID\*
17. IN – STARBASE Indiana – Gary Armory, Gary IN\*
18. IN – STARBASE Indiana – South Bend Armory, South Bend IN\*
19. IN – STARBASE Indiana – Fort Wayne ANGB IN\*
20. IN – STARBASE Indiana – JFHQ, Indianapolis IN\*
21. KS – STARBASE Kansas City – Lenexa Armory, Lenexa KS\*
22. KS – STARBASE Manhattan – Manhattan ARNG KS\*
23. KS – STARBASE Salina – ARNG Great Plains Joint Training Center, Salina KS\*
24. KS – STARBASE Topeka – Forbes Field, Topeka KS\*
25. KS – STARBASE Wichita – McConnell AFB, Wichita KS\*
26. LA – Bayou State STARBASE – North Iberville HS, Rosedale LA\*
27. LA – Pelican State STARBASE – Camp Beauregard, Pineville LA\*
28. LA – STARBASE Jackson Barracks – Jackson Barracks, New Orleans LA\*
29. LA – STARBASE Louisiana – Barksdale AFB LA
30. MA – STARBASE Hanscom – Hanscom AFB MA
31. MI – STARBASE Alpena – Alpena CRTIC MI\*
32. MI – STARBASE Battle Creek – Battle Creek ANG Base MI\*
33. MI – STARBASE One – Selfridge ANG Base MI\*
34. MN – STARBASE Minnesota – 148 Fighter Wing, Duluth MN\*
35. MN – STARBASE Minnesota – 133 Airlift Wing, St. Paul MN\*
36. MT – STARBASE Fort Harrison – Fort Harrison, Helena MT\*
37. MT – STARBASE Great Falls – 120 Airlift Wing, Great Falls MT\*
38. NC – STARBASE Charlotte – 145 Airlift Wing, Charlotte NC\*
39. NC – STARBASE Fort Fisher – NG Training Center, Kure Beach NC\* (moving - Carolina Beach Road Armory)
40. ND – STARBASE North Dakota – Minot AFB ND
41. NM – STARBASE New Mexico – Kirtland AFB NM
42. NV – STARBASE Nellis – Nellis AFB, Las Vegas NV
43. OH – STARBASE Wright-Patt – Wright Patterson AFB, Dayton OH
44. OK – STARBASE Oklahoma – Fort Sill, Lawton OK\*
45. OK – STARBASE Oklahoma – Tulsa ANGB OK\*



46. OK – STARBASE Oklahoma – Tinker AFB, Oklahoma City OK\*
47. OK – STARBASE Oklahoma – Western Technology Center, Burns Flat OK\*
48. OR – STARBASE Rilea – Camp Rilea, Warrenton OR\*
49. OR – STARBASE Kingsley – 173 Fighter Wing, Klamath Falls OR\*
50. OR – STARBASE Umatilla – Camp Umatilla, Hermiston OR\* (New program – approved Aug 2020)
51. OR – STARBASE Portland – Portland ANGB OR\*
52. PR – STARBASE Puerto Rico – Muniz ANGB, Carolina PR\*
53. SC – STARBASE MCAS Beaufort – Marine Corps Air Station Beaufort SC
54. SC – STARBASE Swamp Fox – McEntire JNGB, Eastover SC\*
55. SD – STARBASE NOVA Courage – Native American Outreach, Joe Foss Field/Sioux Falls Armory, Sioux Falls SD\*
56. SD – STARBASE NOVA Honor – Native American Outreach, Rapid City SD\*
57. SD – STARBASE Sioux Falls – Joe Foss Field/Sioux Falls Armory, Sioux Falls SD\*
58. SD – STARBASE Rapid City – Camp Rapid, Rapid City SD\*
59. TX – STARBASE Goodfellow – Goodfellow AFB TX
60. TX – STARBASE Kelly – Lackland AFB TX
61. TX – STARBASE Austin – Camp Mabry, Austin TX\*
62. TX – STARBASE Houston – Ellington Field, Houston TX\*
63. UT – STARBASE Hill – Hill AFB UT
64. VA – STARBASE Winchester – Winchester Readiness Center, Winchester VA\*
65. VT – STARBASE Vermont – ARNG, Rutland VT\*
66. VT – STARBASE Vermont – ANGB, South Burlington VT\*
67. WI – STARBASE Wisconsin – Army Reserve Center, Milwaukee WI\*
68. WV – STARBASE Martinsburg – 167 Airlift Wing, Martinsburg WV\*
69. WV – STARBASE Charleston – 130 Airlift Wing, Charleston WV\*
70. WY – STARBASE Wyoming – Raper Armory, Cheyenne WY\*

\* *National Guard Locations*